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\*non-contractual image

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EN User manual

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**PHILIPS**



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# 1 Notice

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Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners. Philips reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly. The material in this manual is believed adequate for the intended use of the system. If the product, or its individual modules or procedures, are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Philips warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied. Philips cannot be held responsible either for any errors in the content of this document or for any problems as a result of the content in this document. Errors reported to Philips will be corrected and published on the Philips support website as soon as possible.

## Pixel characteristics

This LCD product has a high number of colour pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

## Warranty

No components are user serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by Philips Service Centres and official repair shops. Failure to do so shall void any warranty, stated or implied.

Any operation expressly prohibited in this manual, any adjustments, or assembly

procedures not recommended or authorised in this manual, shall void the warranty.

## Compliance with EMF

Koninklijke Philips Electronics N.V. manufactures and sells many products targeted at consumers which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.

One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.

Philips is committed to develop, produce and market products that cause no adverse health effects. Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.

Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

## Copyright

All other registered and unregistered trademarks are the property of their respective owners.

® Kensington and Micro Saver are registered US trademarks of ACCO World Corporation with issued registrations and pending applications in other countries throughout the world.



VESA, FDMI and the VESA Mounting Compliant logo are trademarks of the Video Electronics Standards Association.

Portions of this software are copyright © The FreeType Project ([www.freetype.org](http://www.freetype.org)).

## 2 Important

Read and understand all instructions before you use your TV. If damage is caused by failure to follow instructions, the warranty does not apply.

### Safety

- Risk of electric shock or fire!
  - Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power outlet immediately. Contact Philips Consumer Care to have the TV checked before use.
  - Never place the TV, remote control or batteries near naked flames or other heat sources, including direct sunlight.  
To prevent the spread of fire, keep candles or other flames away from the TV, remote control and batteries at all times.



- Never insert objects into the ventilation slots or other openings on the TV.
- When the TV is swivelled ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.
- Risk of short circuit or fire!
  - Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire.
- Risk of injury or damage to the TV!
  - Two people are required to lift and carry a TV that weighs more than 25 kg.
  - When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
  - When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that result in accident, injury or damage.
- Risk of injury to children! Follow these precautions to prevent the TV from toppling over and causing injury to children:
  - Never place the TV on a surface covered by a cloth or other material that can be pulled away.
  - Ensure that no part of the TV hangs over the edge of the surface.
  - Never place the TV on tall furniture (such as a bookcase) without anchoring both the furniture and TV to the wall or a suitable support.
  - Educate children about the dangers of climbing on furniture to reach the TV.
- Risk of overheating! Never install the TV in a confined space. Always leave a space of at least 4 inches or 10 cm around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.
- Risk of damage to the TV! Before you connect the TV to the power outlet, ensure that the power voltage matches

the value printed on the back of the TV. Never connect the TV to the power outlet if the voltage is different.

- Risk of injury, fire or power cord damage! Never place the TV or any objects on the power cord.
- To easily disconnect the TV power cord from the power outlet, ensure that you have full access to the power cord at all times.
- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the TV from the power outlet and aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial cable.
- Risk of hearing damage! Avoid using earphones or headphones at high volumes or for prolonged periods of time.
- If the TV is transported in temperatures below 5°C, unpack the TV and wait until the TV temperature matches room temperature before connecting the TV to the power outlet.

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## Screen care

- Avoid stationary images as much as possible. Stationary images are images that remain on-screen for extended periods of time. Examples include: on-screen menus, black bars and time displays. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.
- Unplug the TV before cleaning.
- Clean the TV and frame with a soft, damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- Risk of damage to the TV screen! Never touch, push, rub or strike the screen with any object.
- To avoid deformations and colour fading, wipe off water drops as soon as possible.

---

## Recycling



Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When you see the crossed-out wheeled bin symbol attached to a product, it means the product is covered by the European Directive 2002/96/EC:

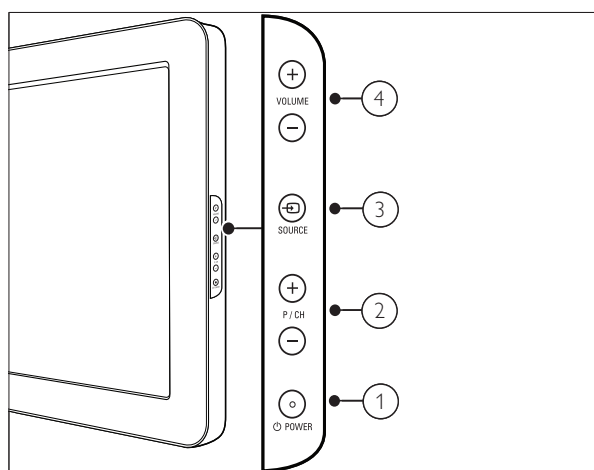


Never dispose of your product with other household waste. Please inform yourself about the local rules on the separate collection of electrical and electronic products. The correct disposal of your old product helps prevent potentially negative consequences for the environment and human health.

# 3 Your product

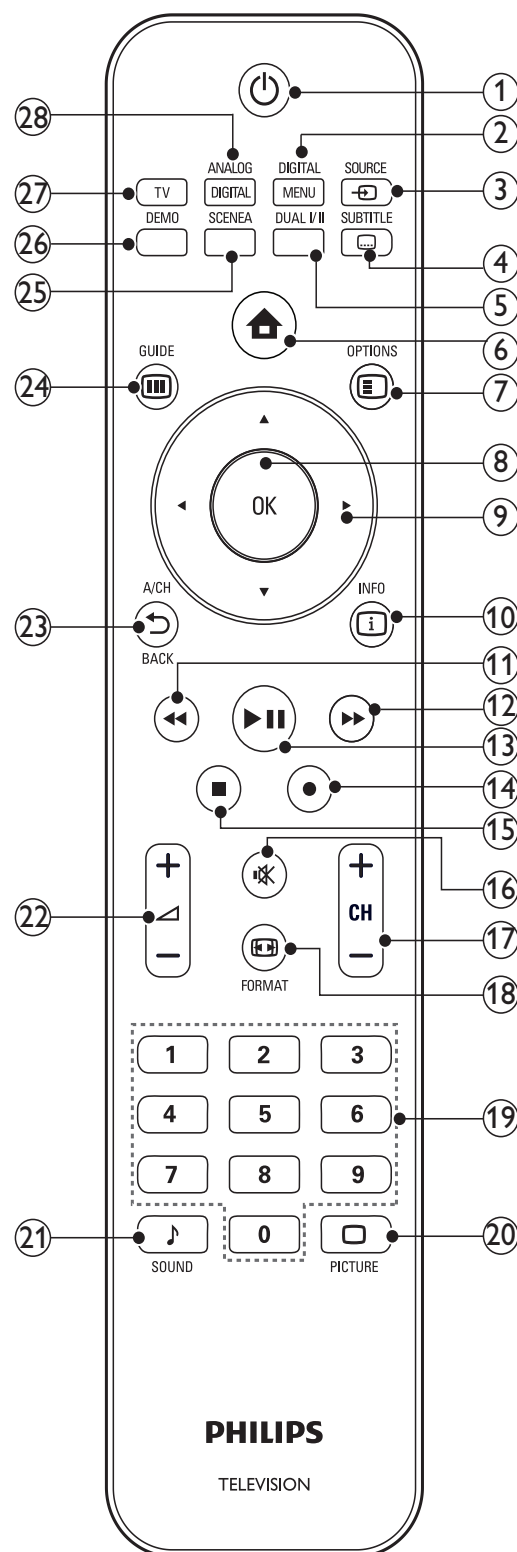
Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers; register your product at [www.philips.com/welcome](http://www.philips.com/welcome).

## Side controls and indicators




















- ① **POWER**: Switches the product on or off. The product is not powered off completely unless it is physically unplugged.
- ② **P/CH +/-**: Switches to the next or previous channel.
- ③ **SOURCE**: Selects connected devices.
- ④ **VOLUME +/-**: Increases or decreases volume.

## Remote control



- ① **Standby-On**
  - Switches the TV to standby if it is on.
  - Switches on the TV if it is in standby.

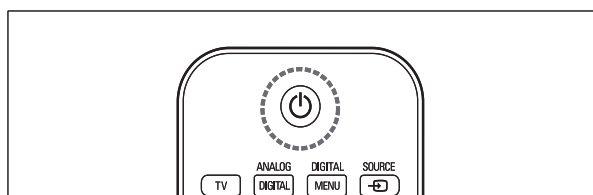
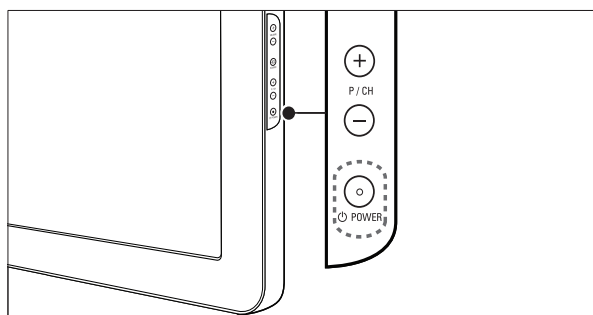
- ② **DIGITAL MENU**  
Accesses or exits the digital menu.
- ③  **SOURCE**  
Selects connected devices.
- ④ **SUBTITLE**  
Enables or disables subtitles.
- ⑤ **DUAL I:II**  
Switches Stereo and Nicam Stereo to Mono. Selects first language (Dual I) or second language (Dual II) in bilingual programmes.
- ⑥  **(Home)**  
Toggles the home menu on or off.
- ⑦  **OPTIONS**  
Accesses options relating to the current activity or selection.
- ⑧ **OK**  
Confirms an entry or selection.
- ⑨  **(Navigation buttons)**  
Navigates through the menus.
- ⑩  **INFO**  
Displays programme information, if available.
- ⑪  **(Backward)**  
Searches backward.
- ⑫  **(Forward)**  
Searches forward.
- ⑬  **(Play/Pause)**  
Starts, pauses or resumes disc play.
- ⑭  **(Record)**  
Starts or stops video recording.
- ⑮  **(Stop)**  
Stops disc play.
- ⑯  **(Mute)**  
Mutes or restores audio output.
- ⑰ **CH +/- (Channel +/-)**  
Switches to the next or previous channel.
- ⑱  **FORMAT**  
Selects a picture format.
- ⑲ **0-9 (Numeric buttons)**  
Selects a channel or setting.
- ⑳  **PICTURE (Smart picture)**  
Launches the picture menu.
- ㉑  **SOUND (Smart Sound)**  
Launches the sound menu.
- ㉒  **+/- (Volume +/-)**  
Increases or decreases volume.
- ㉓  **BACK A/CH**  
Returns to a previous screen.  
Toggles between the current channel and the last viewed channel.
- ㉔  **GUIDE**  
Toggles the Electronic Programme Guide (EPG) on or off. Enabled on digital channels only.
- ㉕ **SCENEA (Wallpaper)**  
Displays wallpaper on your TV screen.
- ㉖ **DEMO**  
Toggles the demonstration menu on or off.
- ㉗ **TV**  
Switches back to the antenna source from EasyLink mode.
- ㉘ **ANALOG/DIGITAL**  
Selects between analog or digital mode.



## 4 Use your product

This section helps you perform basic operations.

### Switch your TV on/off or to standby



#### To switch on

- If the standby indicator is off, press **POWER** at the side of the TV.
- If the standby indicator is red, press **(Standby-On)** on the remote control.

#### To switch to standby

- Press **(Standby-On)** on the remote control.  
 ↳ The standby indicator switches to red.

#### To switch off

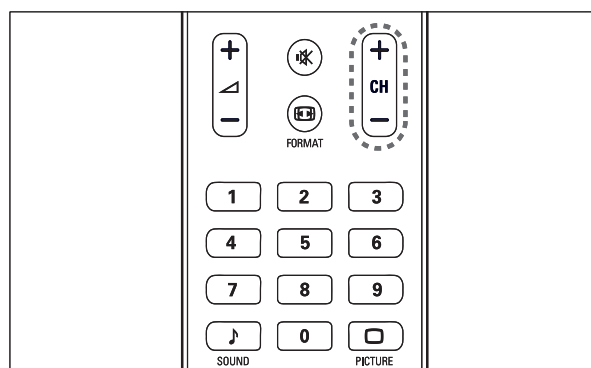
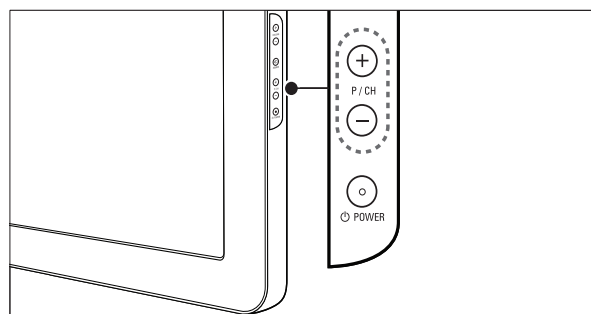
- Press **POWER** at the side of the TV.  
 ↳ The standby indicator switches off.



#### Tip

- Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, disconnect the TV power cable from the power outlet.

### Switch channels



- Press **← BACK A/CH** on the remote control to return to the previously viewed channel.
- Press **CH +/-** on the remote control or **P/CH +/-** on the side of the TV.
- Press **OK** to use the channel matrix.
- Enter a channel number using the **Numeric buttons**.



#### Note

- When you use a favourite list, you can only select those channels in the list (see 'Select a favourite list' on page 18).

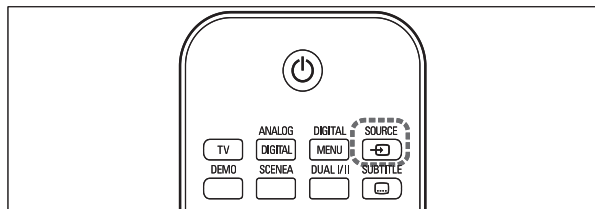
## Watch connected devices



### Note

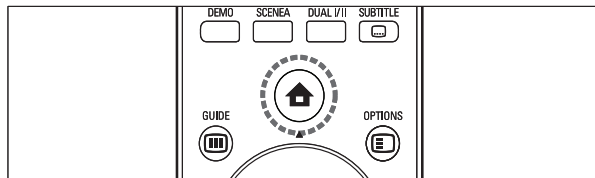
- For easy access, add new devices to the home menu before selecting them.

## Use the source button



- 1 Press **SOURCE**.  
↳ The source list appears.
- 2 Press **▲** or **▼** to select the connected device.
- 3 Press **OK** to watch the connected device.

## Use the home menu

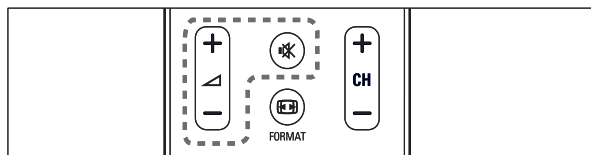
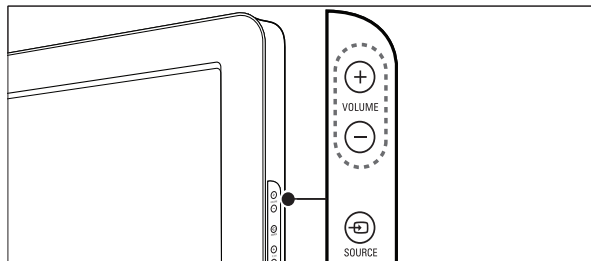


### Note

- You can add new devices to the home menu for easy access.

- 1 Press **Home**.  
↳ The home menu appears.
- 2 Press **▲▼◀▶** to select the device.
- 3 Press **OK** to watch the connected device on your TV.

## Adjust TV volume



### To increase or decrease volume

- Press **+/-**.
- Press **VOLUME +/-** on the side of the TV.

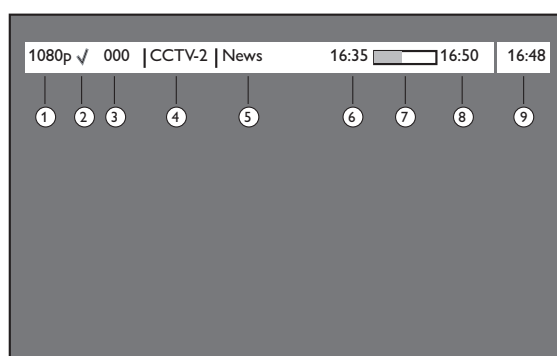
### To mute or unmute sound

- Press **Mute** to mute the sound.
- Press **Mute** again to restore the sound.

## 5 Use your product in digital mode

### Understand the information banner

When you select a digital channel, an information banner is displayed at the top of the screen. The banner disappears after a few seconds. The information banner provides useful information on the current programme on the screen such as channel name, program title, start time of programme, and so on.



- ① Resolution: Indicates resolution type, for example: 1080p.
- ② Favourite list indication: Indicated by a tick if you have added this programme to your favourite list setting.
- ③ Channel number: In the format “###”.
- ④ Channel name
- ⑤ Programme name
- ⑥ Programme start time
- ⑦ Programme time progress bar: Displays time left indicator bar.
- ⑧ Programme end time
- ⑨ Clock: Current time

### Install channels

The first time you set up your TV, you are prompted to select a menu language and to install TV and digital radio channels (if available).

### Check for TV channels or radio stations

You can check for the availability of TV channels or radio stations that have been launched by the broadcaster after you have installed the TV.



#### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **DIGITAL MENU**.
- 2 Select **[Installation] > [Service List]** and press **▶**.
- 3 Press **▲** or **▼** to select **[View TV Channels]** or **[Listen to Radio Stations]**.
- 4 If new services are available, press **▶** to enter into the list of services and press **▲** or **▼** to move through the list.
- 5 Press the **◀** to return to the previous menu or press **DIGITAL MENU** to exit.

### Add new channels or stations to your list

You can search for new TV channels or radio stations that have been launched by the broadcaster after the initial installation.



#### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **⬆**.
- 2 Select **[Installation] > [Service Setup]** and press **▶**.
- 3 Press **▶** to Add new services and press **OK** to activate the installation.

- ↳ A search begins. Any new channels are added to the channel list menu. The percentage of the installation that has been completed and the number of channels found is displayed.

#### Note

- To cancel installation, press **OK**.

- 4 When the search is complete, press **OK** to accept the new services.
- 5 Press **◀** to return to the previous menu or press **⬆** to exit.

## Reinstall all channels

This option lets you reinstall all the digital TV channels and radio stations.

#### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

#### Caution

- Reinstalling services will overwrite all your previously stored channels.

- 1 Press **DIGITAL MENU**.
- 2 Select **[Installation] > [Service Setup] > [Reinstall]** services and press **▶**.
- 3 Press **OK** to start the installation.

↳ A search is for digital services is started. The services are stored automatically.

#### Note

- To cancel installation, press **OK**.

When the search is complete, the menu indicates the number of digital services found. You should see a list of stored channels on the left panel.

- 4 Press **OK** to store the services.

- 5 Press **◀** to return to the previous menu or press **DIGITAL MENU** to exit.

## Install digital channels manually

You can manually install digital services by keying the channel number.

#### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **DIGITAL MENU**.
- 2 Select **[Installation] > [Service Setup] > [Manual install services]** and press **▶**.
- 3 Press **◀** and **▶** to select the channel number and **▼** to select **[Start Scan]**.
- 4 Press **OK** to start the search.
- 5 Press **◀** to return to the previous menu or press the blue button to exit.

## Test digital reception

If using digital broadcasts, you can check the quality and signal strength of digital channels. This allows you to reposition and test your antenna or satellite dish.

- 1 Press the numeric buttons (0-9) or **CH +/-** to switch to the digital channel you wish to test the signal of.
- 2 Press **DIGITAL MENU**
- 3 Select **[Installation] > [Test Reception] > [Frequency]**.

↳ The frequency of the current channel is displayed.
- 4 Press **▼** to select **[Network Name]**.

↳ The name of the broadcast network is displayed.
- 5 Press **▼** to select **[Signal Quality]**.

↳ An indicator bar displays the quality level of the TV signal.
- 6 Press **▼** to select **[Signal Strength]**.

- An indicator bar displays the strength level of the TV signal.

- 7 Press ◀ to return to the previous menu or press **DIGITAL MENU** to exit.



#### Tip

- If the signal strength is poor, consider adjusting or checking the connection of your antenna. Contact a professional antenna installer for best results.

## Change the order of stored channels

You can change the order of the digital channels and radio stations that you have stored.



#### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Installation] > [Service List] > [Rearrange Services]** and press ▶.
- 2 Press ▶ to select Uninstall services and press ▲ or ▼ to select the services you wish to uninstall.
- 3 Press **OK** to uninstall the service temporarily.
- 4 Press ▶ to return to the previous menu and ▼ to select **[Move services]**.
- 5 Press ▲ or ▼ to highlight the service and **OK** to select.
- 6 Press ▲ or ▼ to move the service to the order you want and press **OK** to confirm.
- 7 Repeat the above steps to move other services.
- 8 Press ◀ to return to the previous menu or press **DIGITAL MENU** to exit.

## Set your preferences

### Set your language

You can select your preferred language for system menu and subtitle.



#### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Preferences] > [Language]** and press ▶.
- 2 Press ▲ or ▼ to select System or Subtitle and press ▶.
- 3 Press ▲ or ▼ to select the language and press **OK** to confirm.
- 4 Press ◀ to return to the previous menu or press the blue button to exit.

### Menu options for language

**System:** To select the menu language.

**Subtitle:** To select your preferred subtitle language.

### Set your subtitle mode



#### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Preferences] > [Subtitle Mode]** and press ▶.
- 2 Press ▼ to select **[On]**.
- 3 Press ◀ to return to the previous menu or press **DIGITAL MENU** to exit.

---

## Set your digital audio output

### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Preferences]** > **[Digital Audio Output]** and press **►**.
- 2 Press **▲** or **▼** to select **[AC3]** or **[PCM]** output.
- 3 Press **◀** to return to the previous menu or press **DIGITAL MENU** to exit.

---

## Digital Audio Output

**AC3:** A compressed digital audio format that supports 5.1 channel.

**PCM:** Pulse Code Modulation (PCM) is a way of transmitting uncompressed digital audio. PCM is used by Audio CDs.

### Tip

- If your DVD or home theatre system supports AC3 decoding, select AC3. Otherwise, select PCM.

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## Control access to digital channels

You can restrict access to the digital channels by blocking them with an access PIN code.

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## Turn on PIN code protection

### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Access Restrictions]** and press **►**.

### Note

- If Enable Pin Protection is Off, select On to proceed.

- 2 Enter the default PIN code “1234” with the numeric buttons (0-9).  
You can access the menu now using the default PIN code.
- 3 Press the **▲** or **▼** to highlight **[On]** and press **OK** to turn on PIN code protection.

---

## Change your PIN code

- 1 Turn on PIN code protection.
- 2 Press the **▼** to select Change PIN code and press **OK**.
- 3 Enter your PIN code using the numeric buttons (0-9) on the remote control.
- 4 Enter a new code when prompted to enter your new PIN code.
- 5 Re-enter the new code when prompted
- 6 Press **◀** to return to the previous menu or press **DIGITAL MENU** to exit.

## Set up your favourite channels

You can create a list of up to four of your favourite TV channels and radio stations.



### Note

- If you are not in the digital mode, press **ANALOG/DIGITAL**.

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Favorites]** > list number (**List 1** to **List 4**) and press **OK**.
- 2 Press the **▶** to enter the Favorites setting options.

## Change the name of a favourite list

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Favorites]** > list number (**List 1** to **List 4**) > **[Name]**.
- 2 Press **◀** or **▶** to move the cursor over the character of the name list and press **▲** or **▼** to scroll through the character list.
- 3 Press **OK** to confirm.
- 4 Select **[Yes]** and press **OK** to confirm changing the list name.

## Select TV channels and radio stations

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Favorites]** > list number (**List 1** to **List 4**) > **[Select TV channels]**.
- 2 Press **◀** or **▶** to navigate the list of channels or stations to select.
- 3 Press **OK** to select. An 'X' marks the check box to indicate the channel or station has been selected.

## Add all services to a favourite list

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Favorites]** > list number (**List 1** to **List 4**) > **[Add all services]**.
- 2 Press **▶** to enter menu.
- 3 Select **[Yes]** and press **OK** to confirm adding all the services.
- 4 Press **◀** to return to the previous menu or press **DIGITAL MENU** to exit.

## Remove all services from a favourite list

- 1 Press **DIGITAL MENU** to display the on-screen menu and select **[Favorites]** > list number (**List 1** to **List 4**) > **[Remove all services]**.
- 2 Press **▶** to enter menu.
- 3 Select **[Yes]** and press **OK** to confirm removing all the services.
- 4 Press **◀** to return to the previous menu or press **DIGITAL MENU** to exit.

---


# Use the Electronic Programme Guide

EPG is an on-screen guide available for digital channels. EPG allows you to:

- View a list of digital programmes being broadcast
- View upcoming programmes
- Group programmes by genre
- Set reminders when programmes start
- Set up preferred EPG channels


---

## Switch on EPG

- 1 When watching TV, press  **GUIDE**.
  - ↳ The EPG planner screen appears displaying information about the scheduled programmes.









### Tip

- Press  **GUIDE** to switch between EPG and channel grid.

---

## Use EPG

- 1 When watching TV, press  **GUIDE**.
  - ↳ The EPG planner screen appears.
- 2 Press  or  to change channels or  or  to **[Now]** or **[Next]**.
- 3 Press  **GUIDE** to exit the EPG menu.



## 6 Use your product in analogue mode

### Access TV menus

Menus help you to install channels, change picture and sound settings and access other features.

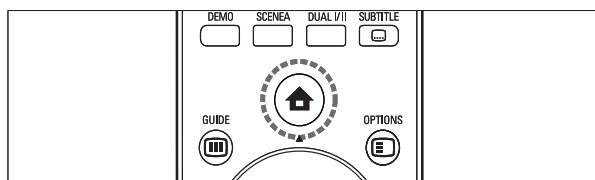


#### Note

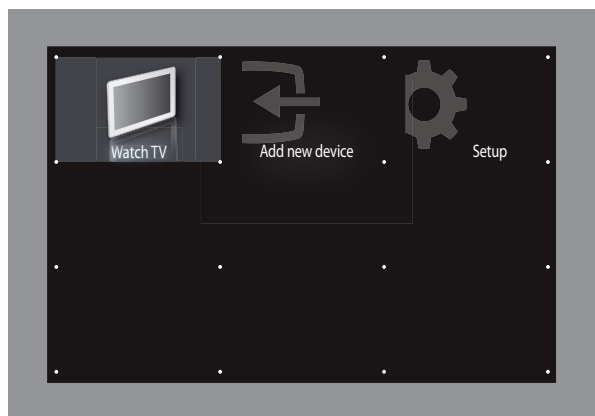
- If you are not in the analogue mode, press **ANALOG/DIGITAL**.

### Access the home menu

The home menu gives you easy access to connected devices, picture and sound settings as well as other useful features.



- 1 Press **Home**.  
↳ The home menu appears.



- 2 Press **▲▼◀▶** to select an option.
  - **[Watch TV]** Switches to TV mode.

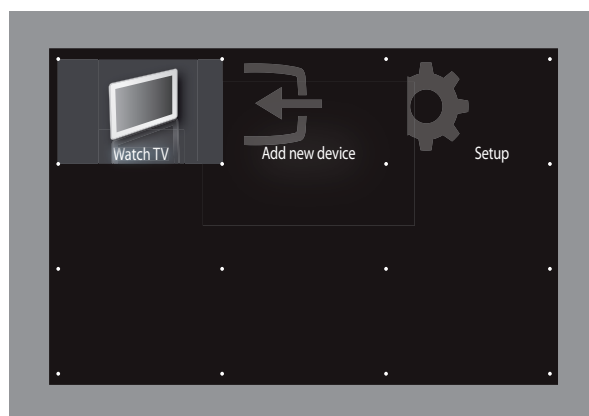
- **[Setup]** Accesses menus to adjust picture, sound and other TV settings.
- **[Add new device]** Adds new devices to the home menu for easy access.

- 3 Press **OK** to confirm your choice.
- 4 Press **Home** to exit.

### Remove devices from the home menu

If a device is no longer connected to the TV, remove it from the home menu.

- 1 Press **Home**.  
↳ The home menu appears.



- 2 Press **OPTIONS**.  
↳ The **[Remove]** menu appears.
- 3 Press **▲▼◀▶** to select an icon.
- 4 Press **OK** to remove the icon.  
↳ The selected icon is removed from the home menu.

---

## Change picture and sound settings

Change picture and sound settings to suit your preferences. You can apply pre-defined settings or change settings manually.

---

### Use settings assistant

Use the settings assistant to guide you through the best picture settings.

- 1 Press **⬆** (**Home**).  
↳ The home menu appears.
- 2 Press **▲▼◀▶** to select **[Setup] > [Picture]**  
> **[Settings assistant] > [Start]**.
- 3 Press **OK**.  
↳ The **[Settings assistant]** menu appears.  
Follow the on-screen instructions to choose your preferred picture settings.

---

### Use smart picture

Use smart picture to apply pre-defined picture settings.

- 1 Press **□ PICTURE**.  
↳ The **[Smart picture]** menu appears.
- 2 Press **▲▼◀▶** to select from the following smart picture settings:
  - **[Personal]**Lists customised personal picture settings.
  - **[Vivid]**Maximises picture settings.
  - **[Standard]**Adjusts picture settings to suit most environments and types of video.
  - **[Movie]**Applies picture settings ideally suited for movie viewing.
  - **[Game]**Applies picture settings maximised for fast-moving games.
  - **[Energy saving]**Applies low-energy picture settings.

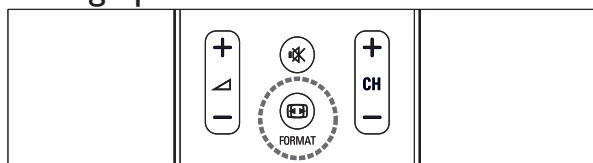
---

## Manually adjust picture settings

- 1 Press **⬆** (**Home**).
- 2 Press **▲▼◀▶** to select **[Setup] > [Picture]**.  
↳ The **[Picture]** menu appears.
- 3 Press **▲▼◀▶** to select from the following settings and adjust:
  - **[Smart picture]**Accesses pre-defined smart picture settings.
  - **[Contrast]**Adjusts the intensity of bright areas, keeping dark areas unchanged.
  - **[Brightness]**Adjusts the intensity and details of dark areas.
  - **[Colour]**Adjusts colour saturation.
  - **[Hue]**Compensates colour variations in NTSC encoded transmissions.
  - **[Sharpness]**Adjusts the level of sharpness in image details.
  - **[Noise reduction]**Filters and reduces noise in an image.
  - **[Colour temperature]**Introduces more orange tones (**[Warm]**) or blue tones (**[Cool]**) to the picture.
  - **[Pixel Plus HD]**Fine-tunes each pixel to match surrounding pixels. This produces a brilliant, high-definition image.
  - **[HD Natural Motion]**Reduces field and line flicker to display movement smoothly. You can switch HDNM on or off.
  - **[100Hz LCD]**Not available in all models. Sets the TV refresh rate to a maximum of 100Hz to provide superior motion sharpness, better black level, high contrast with a flicker-free, quiet image and a larger viewing angle.
  - **[Advance sharpness]**Not available in all models. Enables superior sharpness, especially on lines and contours in the picture.
  - **[Dynamic contrast]**Automatically enhances contrast in an image.

- **[Dynamic backlight]** Adjusts the brightness of the TV backlight to match lighting conditions.
- **[MPEG artifact reduction]** Not available in all models. Smoothes out transitions on digital pictures. You can switch this feature on or off.
- **[Colour enhancement]** Makes colours more vivid and improves the resolution of details in bright colours. You can switch this feature on or off.
- **[PC mode]** Adjusts picture settings when a PC is connected to the TV.
- **[Light sensor]** Dynamically adjusts picture settings to match lighting conditions.
- **[Picture format]** Changes the picture format.
- **[Horizontal shift]** Adjusts the picture horizontally for PC-VGA or HD input.
- **[Vertical shift]** Adjusts the picture vertically for PC-VGA or HD input.

## Change picture format



- 1 Press **FORMAT**.  
↳ A picture format bar appears.
- 2 Press **▲▼** to select a picture format.  
↳ The selected picture format is previewed.

## Summary of picture formats

The following picture settings can be configured.



### Note

- Depending on the format of the picture source, some picture settings are not available.



**[Super zoom]** (Not for HD and PC mode.) Removes the black bars on the side of 4:3 broadcasts. There is minimal distortion.



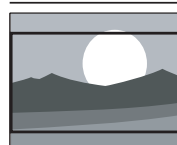
**[4:3]** Shows the classic 4:3 format.



**[Subtitle zoom]** (Not for HD and PC mode.) Displays 4:3 pictures over the full area of the screen, with sub-titles visible. Part of the top of the picture is clipped off.



**[Movie expand 14:9]** (Not for HD and PC mode.) Scales 4:3 format to 14:9.



**[Movie expand 16:9]** (Not for HD and PC mode.) Scales 4:3 format to 16:9.



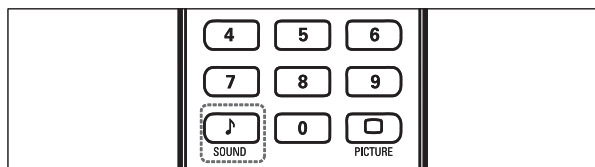
**[Wide screen]** Stretches the classic 4:3 format to 16:9.



**[Unscaled]** For HD and PC mode only, and in selected models only. Allows maximum sharpness. Some distortion may be present due to the broadcaster's systems. Set your PC resolution to wide screen mode for best results.

## Use smart sound

Use smart sound to apply pre-defined sound settings.



- 1 Press **♪ SOUND**.  
↳ The **[Smart sound]** menu appears.
- 2 Press **▲▼** to select a smart sound setting:
  - **[Standard]** Adjusts sound settings to suit most environments and types of audio.
  - **[News]** Applies sound settings ideally suited for spoken audio, such as the news.
  - **[Movie]** Applies sound settings ideally suited for movies.
  - **[Personal]** Applies the settings that were customised in the sound menu.

## Adjust sound settings

- 1 Press **⬆** (Home).
- 2 Press **▲▼◀▶** to select **[Setup] > [Sound]**.  
↳ The **[Sound]** menu appears.
- 3 Press **▲▼◀▶** to select and adjust:
  - **[Smart sound]** Accesses pre-defined smart sound settings.
  - **[Bass]** Adjusts the bass level.
  - **[Treble]** Adjusts the treble level.
  - **[Volume]** Adjusts the volume.
  - **[Balance]** Adjusts the balance of the right and left speakers to best suit your listening position.
  - **[Dual I-II]** Selects between audio languages if dual sound is broadcast.
  - **[TV speakers]** Sets the TV speakers on or off, or outputs sound to an EasyLink-compliant device. **[EasyLink]** must be activated in the **[Preferences]** menu to make the **[TV speakers]** menu available.
  - **[Surround]** Enables spatial sound.

- **[Headphone volume]** Adjusts headphone volume.
- **[Auto volume]** Automatically reduces sudden volume changes, for example, when switching channels. When enabled, this produces a more consistent audio volume.
- **[Delta volume]** Corrects volume differences between TV channels and connected devices (switch to your connected device when adjusting **[Delta volume]**).

## Create and use lists of favourite channels

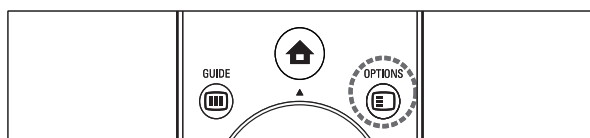
You can create lists of your preferred TV channels and radio stations so that you can find those channels easily.



Tip

- You can create and store up to four favourite lists on your TV.

## Select a favourite list



- 1 When watching TV, press **OK**.  
↳ The channel grid appears.
- 2 Press **OK**.  
↳ The options menu appears.
- 3 Press **▲▼** to select **[Show favourite channels]**.  
↳ The favourite lists appear.
- 4 Press **▲▼** to select a favourite list or **[All]**.
- 5 Press **OK**.  
↳ If you selected a favourite list, only channels in the list appear in the channel grid; if you selected **[All]**, all installed channels appear in the channel grid.
- 6 Press **⏮** to exit the options menu.

## Add a channel to a favourite list



### Tip

- View all channels before adding a channel to a favourite list.

- 1 When watching TV, switch to the channel you want to add to a favourite list (see 'Switch channels' on page 7).
- 2 Press .
  - ↳ The channel options menu appears.
- 3 Press to select **[Mark as favourite]**.
- 4 Press **OK**.
- 5 Select a favourite list to add the channel to.
- 6 Press **OK**.
  - ↳ The channel is added to the favourite list.
- 7 Press **BACK A/CH** to exit the channel options menu.
  - ↳ The channel grid appears.

## Remove a channel from a favourite list



### Note

- Select the favourite list to edit, before removing a channel.

- 1 When watching TV, press **OK**.
  - ↳ The channel grid appears.
- 2 Press to select a channel.
- 3 Press **OPTIONS**.
  - ↳ The channel options menu appears.
- 4 Press to select **[Unmark as favourite]**.
- 5 Press **OK**.
  - ↳ The channel is removed from the favourite list.
- 6 Press **BACK A/CH** to exit the channel options menu.
  - ↳ The updated channel grid appears, displaying the current channels in the favourite list.

## Use timers

You can set timers to switch the TV on or switch to standby at a specified time.

### Set the time

- 1 Press (**Home**).
- 2 Select **[Setup] > [Features] > [Clock]**.
- 3 Press **OK**.
- 4 Press to set the time.
- 5 Select **[Done]**.
- 6 Press **OK**.

### Automatically switch the TV to standby (sleeptimer)

Sleeptimer switches the TV to standby after a pre-defined period of time.



### Tip

- You can always switch off your TV earlier or reset the sleeptimer during the countdown.

- 1 Press (**Home**).
  - ↳ The home menu appears.
- 2 Press to select **[Setup] > [Features] > [Sleep timer]**.
  - ↳ The **[Sleep timer]** menu appears.
- 3 Press to set the sleep time.
  - ↳ The sleeptimer can be up to 180 minutes in steps of five minutes. If set to zero minutes, the sleeptimer is switched off.
- 4 Press **OK**.
  - ↳ The TV switches to standby after the pre-defined period of time.

---

## Automatically switch the TV on (on timer)

You can switch the TV to a specified channel at a specified time, from standby.

- 1 Press **⬆** (Home).
- 2 Select **[Setup] > [Features] > [On timer] > [Activate]**.
- 3 Press **OK**.
- 4 Press **⬆** to set the frequency, time and channel.



Tip

- To switch off **[On timer]**, select **[OFF]** in the **[On timer]** menu.

---

## Set or change your PIN code

- 1 Press **⬆** (Home).
- 2 Press **⬆** to select **[Setup] > [Features] > [Change code]**.  
↳ The **[Change code]** menu appears.
- 3 Enter a four-digit PIN using the **Numeric buttons**.
  - If you have a PIN, enter your current PIN.
  - If you do not have a PIN or if you have forgotten your PIN, enter '0711'.
- 4 Enter your PIN again to confirm.

---

## Use child control

You can prevent your children from watching certain programmes or certain channels by locking the TV controls.

---

## Lock or unlock the TV

Locking the TV prevents your child from accessing all channels and connected devices.

- 1 Press **⬆** (Home).
- 2 Press **⬆** to select **[Setup] > [Features] > [TV lock]**.  
↳ A message appears prompting you to enter your PIN code.
- 3 Enter your PIN code with the **Numeric buttons**.  
↳ The **[TV lock]** menu appears.
- 4 Press **⬆** to select **[Lock]** or **[Unlock]**.
- 5 Press **OK**.  
↳ All channels and connected devices are locked or unlocked.

---

## Lock or unlock one or more channels

- 1 When watching TV, press **OK**.  
↳ The channel grid appears. The active channel is highlighted.
- 2 Press **⬆** **OPTIONS**.
- 3 Press **⬆** to select **[Lock/Unlock chan.]**.
- 4 Key in your PIN code.  
↳ The channel displays the lock icon.

---

## Use subtitles

You can enable subtitles for each TV channel. With digital broadcasts, you have the additional option of selecting a preferred subtitle language.

---

## Enable subtitles on digital TV channels

- 1 When watching digital channels, press **SUBTITLE**.  
↳ The **[Subtitle mode]** menu appears.
- 2 Select **[On]** to display subtitles or **[On during mute]** to display subtitles only when audio is muted.
- 3 Press **OK** to enable subtitles.

## Select a subtitle language on digital TV channels

### Note

- When you select a subtitle language on a digital TV channel as described below, the preferred subtitle language set in the installation menu is temporarily overruled.

- 1 Press **⬆** (Home).
- 2 Press **▲▼◀▶** to select **[Setup] > [Features] > [Subtitle language]**.
- 3 Press **OK** or **▶** to enter the list of available languages.
- 4 Press **▲▼** to select a subtitle language.
- 5 Press **OK** to enable your selection.

### Tip

- You can also access **[Subtitle language]** menu while watching TV by pressing **⏏** **OPTIONS > [Subtitle language]**.

## Use the TV clock

You can display a clock on the TV screen. The clock displays the current time using time data received from your TV service operator.

### Display the TV clock

- 1 When watching TV, press **⏏** **OPTIONS**.  
↳ The TV options menu appears.
- 2 Select **[Clock]**.
- 3 Press **OK**.  
↳ The clock is displayed.

### Note

- The clock is disabled automatically after ten minutes. To disable the clock before that, repeat this procedure.

## View photos, play music and watch video from a USB storage device

### Caution

- Philips is not responsible if the USB storage device is not supported nor is it responsible for damage or loss of data from the device.

Your TV is fitted with a USB connector that enables you to view photos, listen to music or watch movies stored on a USB storage device.

### Supported file formats

Pictures	JPEG (non-progressive only)
Music	MP3
Video	H.264, MPEG4

### Note

- Only FAT or DOS-formatted USB storage devices are supported. File names must not exceed 128 characters.
- Your TV only supports USB flash drives in FAT/FAT32 format. It does not support other devices that can be connected to the USB port including but not limited to the following: portable storage devices such as external hard drives and mini hard drives, MP3 player, digital camera, phone, portable video player, portable multimedia player.
- The capacity of the USB storage device must not exceed 32 gigabytes.
- The file size of all supported formats must not exceed 4 gigabytes.

## Connect a USB storage device and enter the content browser

- 1 Turn on the TV.
- 2 Connect the USB device to the USB port on the side of the TV.
- 3 Press **⬆** (Home).  
↳ The home menu appears.
- 4 Press **▲▼◀▶** to select **[Browse USB]**.

- 5 Press **OK** to confirm.  
↳ The USB content browser appears.

#### Note

- If you connect multiple USB storage devices via USB hub, a message appears prompting you to select a device. Press **▲▼** to select the device, then press **OK** to confirm.

#### Tip

- Press **▢ BROWSE** to switch between thumbnail and file browsing views.

---

## Disconnect a USB storage device

### Caution

- Follow this procedure to avoid damage to your USB storage device.

- 1 Press **↶ BACK A/CH** to exit the **[USB]** menu.
- 2 Wait for five seconds before disconnecting the USB storage device.

---

## View photos

- 1 In the USB content browser, press **▶** to enter the **[Picture]** folder.
- 2 Press **▲▼◀▶** to select a photo.
- 3 Press **OK** to view a full screen image of the photo.

#### Tip

- When in full screen mode, press **◀▶** to move between photos.

---

## View a slide show of your photos

- 1 When a full screen image of a photo is displayed, press **▶||** or **OK**.  
↳ A slide show begins from the selected image.

- 2 Press:
  - **▶||** to pause the slide show.
  - **◀◀** or **▶▶** to go back or move forward to the next image.
  - **↶ BACK A/CH** or **■** to stop the slide show and return to the USB content browser.

---

## Change slide show settings

- 1 When viewing a slide show, press **▢** **OPTIONS**.  
↳ The slide show options menu appears.
- 2 Press **▲▼◀▶** to select from the following settings and adjust:
  - **[Start/Stop slide.]** Starts or stops a slide show.
  - **[Slideshow transitions]** Displays a list of transition styles.
  - **[Slideshow frequency]** Sets the amount of time that a picture is shown.
  - **[Rotate image]** Rotates a picture.
  - **[Show info]** Displays the picture name, date, size and next picture in the slide show.
- 3 Press **OK** to confirm the setting change.

---

## Listen to music

- 1 Connect a USB storage device to the USB port on the side of the TV.
- 2 Press **▶** to enter the menu.
- 3 Select **[Music]**, and then press **▶** to enter the **[Music]** folder.
- 4 Press **▲** or **▼** to select a song or a music album.
- 5 Press **OK** to play the selected song or album.

### Music settings

- **[Show info]** Displays the file name.
- **[Repeat]** Repeats a song or an album.
- **[Shuffle]** Plays songs randomly.



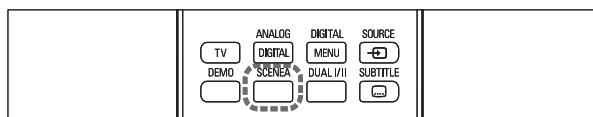
## Watch video from a USB device

- 1 In the USB content browser, press ► to enter the **[VIDEO]** folder.
- 2 Press ▲▼◀▶ to select a video.
- 3 Press **OK** to play the video.

## Use Scenea to display a picture as TV wallpaper

You can use the Scenea feature to display a still picture as wallpaper on your TV. This feature is for home mode only.

### Activate Scenea



### Single-picture wallpaper

Press **SCENE** on your remote control.

- ➔ The default or pre-loaded picture is displayed.

### Note

- To deactivate the wallpaper, press any remote control button except **○**, **♪** **SOUND**, and **□** **PICTURE**.
- The wallpaper is also deactivated when you connect a USB storage device to the TV or start an EasyLink-compliant device through one-touch play.

### Wallpaper slide show

Make sure the wallpaper is not yet activated.

- 1 Connect a USB storage device to the TV.
- 2 Press **SCENE**.
  - ➔ All pictures in the USB storage device are displayed.

### Note

- The wallpaper display duration is determined by the pre-defined sleeptimer settings (see 'Automatically switch the TV to standby (sleeptimer)' on page 19). When sleeptimer is off, the wallpaper is displayed for a maximum of 120 minutes.

## Upload a wallpaper picture from a USB device

Before performing this procedure, be sure to have available a USB storage device containing the picture you intend to use as wallpaper.

- 1 Connect the USB storage device to the TV.
  - ➔ The home menu appears with **[Browse USB]** already highlighted.
- 2 Press **OK**.
- 3 Press ▲▼◀▶ to select a picture.
- 4 Press **SCENE** to set the picture as personalised wallpaper.

## Update the TV software

Philips continuously tries to improve its products and we recommend that you update the TV software when updates are available. Check [www.philips.com/support](http://www.philips.com/support) for availability.

### Update software (analogue broadcasts)

Before performing this procedure be sure to:

- Set aside some time to complete the entire update.
- Have available a USB storage device with at least 64MB of storage space.
- Have access to a computer with a USB port and internet access.

### Step 1 Download the TV identification file

- 1 Press **⬆** (**Home**)
- 2 Select **[Setup]** > **[Software update]** > **[Update assistant]** > **[Action]**.
- 3 Select **[Start]**.

- 4 Follow the on-screen instructions to download the TV identification file to the USB storage device.

## Step 2 Download the latest software

- 1 Connect the USB storage device to a computer with internet connection.
- 2 Locate and open the file **update.htm** on your USB storage device.
- 3 Read the on-screen instructions and click the **Send ID** button.  
If a new software is available, the update is downloaded to the USB storage device.
- 4 Disconnect the USB storage device.

## Step 3 Update the TV software



### Caution

- Do not disconnect the USB storage device from the TV during the software update.
- If a power failure occurs during the update, do not remove the USB storage device from the TV. The TV will continue the update as soon as power comes back.

- 1 Connect the USB storage device to the TV.  
↳ An on-screen message prompts you to update your TV software.
- 2 Select **[Update]**.
- 3 Select **[Start]**.
- 4 Follow the on-screen instructions to update the TV software.

## Update using a USB device

Connect your USB device to the USB port at the side of your TV.

- 1 If the software update screen does not appear automatically, select **[Setup] > [Software update] > [Local updates] > [USB]** to update the TV software manually.
- 2 Follow the on-screen instructions to complete the update.



### Note

- The TV restarts after the software update is complete.

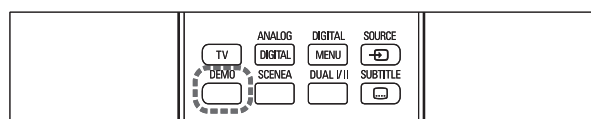
## Change TV preferences

The **[Preferences]** menu allows you to customise various features and functions.

- 1 Press **⬆** (**Home**).
- 2 Select **[Setup] > [Installation] > [Preferences]**.
  - **[Location]** Optimises TV settings for your location - home or shop.
  - **[Volume bar]** Displays the volume bar when adjusting the volume.
  - **[Channel info.]** Displays information about the TV channel every time you switch channels.
  - **[EasyLink]** Enables one-touch play and one-touch standby between EasyLink-compliant devices.
  - **[Pixel Plus Link]** Overrides the settings of connected devices and uses the settings of the TV.
  - **[E-sticker]** For shop mode only. Sets the location of the e-sticker.

## Start a TV demo

You can use demonstrations to better understand the features of your TV. Some demos are not available on certain models. When a demo is available, it is displayed in the menu list.



- 1 Press **DEMO**.
- 2 Press **▲** or **▼** to select a demo.
- 3 Press **OK** to start the demo.

- 4 Follow on-screen instructions to view the demo.
- 5 Press **DEMO** to exit.

---

## Reset the TV to factory settings

You can restore the default picture and sound settings of your TV. Channel installation settings remain the same.

- 1 Press **⬆** (**Home**).
- 2 Select **[Setup] > [Installation] > [Factory settings]**.
- 3 Press **▶** to enter the **[Factory settings]** menu.  
↳ **[Reset]** is highlighted.
- 4 Press **OK** to reset to default settings.
- 5 Press **⬆** (**Home**) to exit.

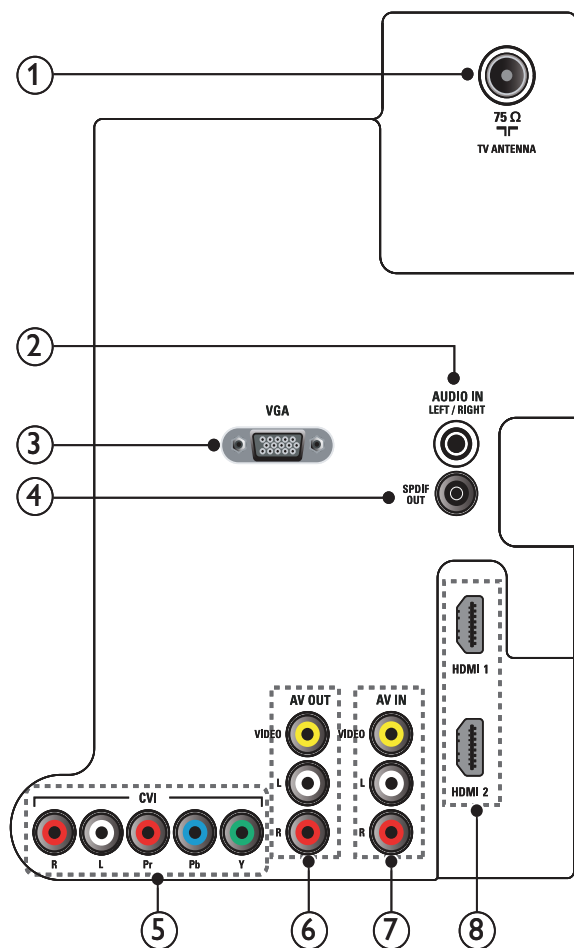
# 7 Connect devices

This section describes how to connect various devices with different connectors and supplements examples provided in the Quick Start.

## Note

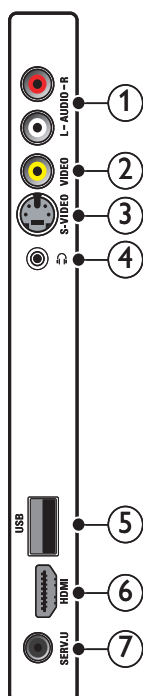
- Different types of connectors may be used to connect a device to your TV, depending on availability and your needs.

## Back connectors



- 1 TV ANTENNA**  
Signal input from an antenna, cable or satellite.
- 2 AUDIO IN L/R**  
Audio input from devices that require a separate audio connection, such as a computer.
- 3 VGA**  
Video input from a computer.
- 4 SPDIF OUT**  
Digital audio output to home theatres and other digital audio systems.
- 5 CVI (Y Pb Pr and AUDIO L/R)**  
Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.
- 6 AV OUT (VIDEO and AUDIO L/R)**  
Only in analogue mode. Audio and video output to analogue devices such as another TV or a recording device.
- 7 AV IN (VIDEO and AUDIO L/R)**  
Analogue audio and video input from analogue or digital devices such as DVD players, satellite receivers and VCRs.
- 8 HDMI 1/2**  
Digital audio and video input from high-definition digital devices such as Blu-ray players.

## Side connectors



### ① AUDIO IN L/R

Audio input from analogue devices connected to **VIDEO** or **S-VIDEO**.

### ② VIDEO

Composite video input from analogue devices such as VCRs.

### ③ S-VIDEO

Video input from analogue devices such as satellite receivers. When you use this connector, do not use connector for video signals.

### ④

Stereo audio output to headphones or earphones.

### ⑤ USB

Data input from USB storage devices.

### ⑥ HDMI

Digital audio and video input from high-definition digital devices such as Blu-ray players.

### ⑦ SERV. U

For use by service personnel only.

## Connect a computer

Before you connect a computer to the TV

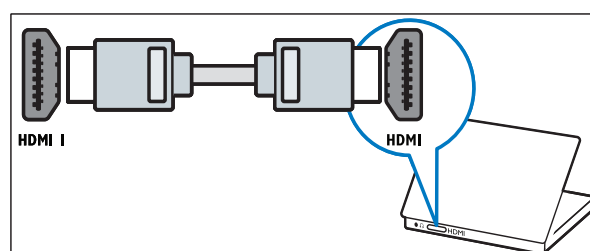
- Set the monitor refresh rate on your computer to 60Hz.
- Press **FORMAT** and change the TV picture format to **[Unscaled]**.

Connect a computer with one of the following connectors:

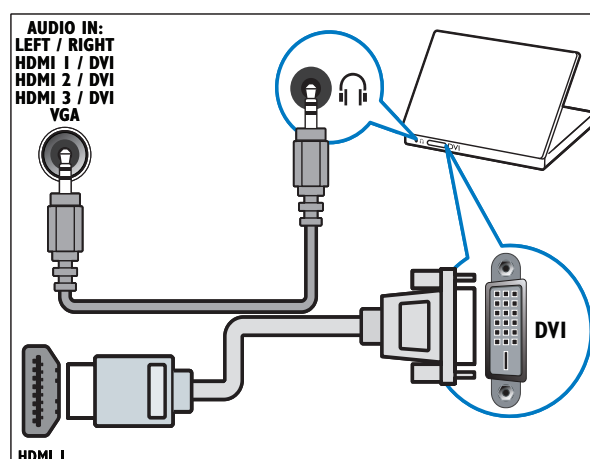
### Note

- Connections via DVI or VGA require an additional audio cable.

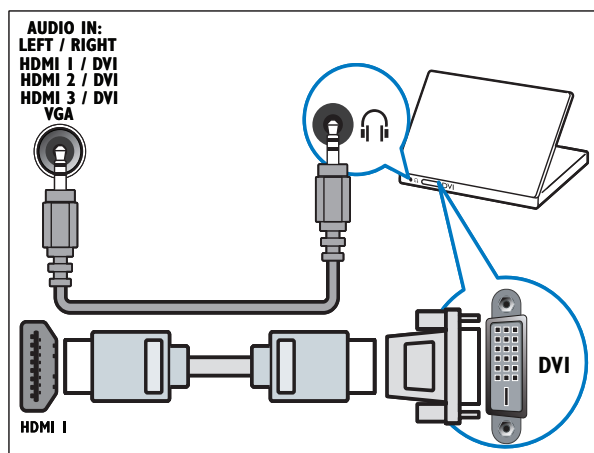
- HDMI cable



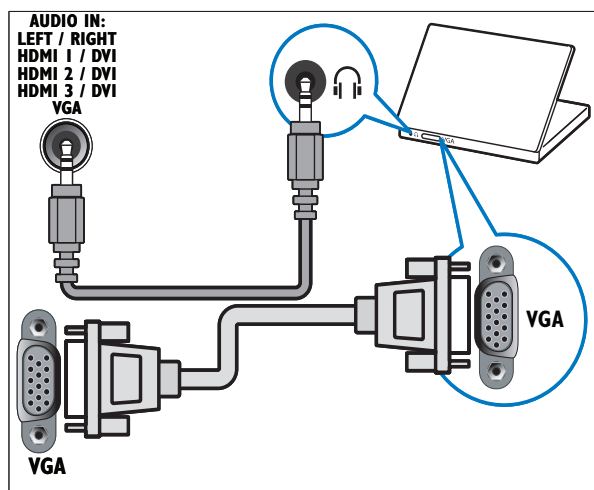
- DVI-HDMI cable



- HDMI cable and HDMI-DVI adaptor



- VGA cable



## Assign devices

After connecting devices, assign the device attached to each connector. This allows you to easily identify devices connected to your TV.

- 1 Press **Home**.
- 2 Press **OK** or **▶**.
- 3 Press **▲** or **▼** to select a device and press **▶**.
- 4 Press **▲** or **▼** to select the connector your device is connected to and press **▶**.
- 5 If available, press **▲** or **▼** to select the audio connector your device is connected to and press **▶**.

- 6 Switch on your device and check for video and audio output.
- 7 If there is video and audio output, press **OK**.

Repeat the procedure until all devices are correctly assigned to connectors.

## Use Philips EasyLink

Your TV supports Philips EasyLink, which uses the HDMI CEC (Consumer Electronics Control) protocol. EasyLink-compliant devices that are connected through HDMI connectors can be controlled by a single remote control.

### Note

- Philips does not guarantee 100% interoperability with all HDMI CEC devices.

### Note

- The EasyLink-compliant device must be switched on and selected as the source.

## EasyLink features

### One-touch play

When you connect your TV to devices that support one-touch play, you can control your TV and the devices with one remote control. For example, when you press Play on your DVD remote control, your TV automatically switches to the correct channel to show the DVD content.

### One-touch standby

When you connect your TV to devices that support standby, you can use your TV remote control to put your TV and all connected HDMI devices in standby mode.

### System audio control

When you connect your TV to HDMI CEC compliant devices, your TV can switch automatically to play audio from the connected device.

To use one-touch audio, you must map the audio input from the connected device to your TV.

You can use the remote control from the connected device to adjust the volume.

### Remote control (RC) key forwarding

RC key forwarding allows you to control EasyLink-compliant devices using your TV remote control.

## EasyLink buttons

You can control EasyLink-compliant devices with the following buttons on the remote control of your TV.

Button	EasyLink function
▶   (Play/Pause)	Starts, pauses or resumes playback on your EasyLink device.
■ (Stop)	Stops playback on your EasyLink device.
● (Record)	Starts or stops video recording on your EasyLink device.
◀◀ (Fast Reverse)	Searches backward.
▶▶ (Fast Forward)	Searches forward.
0-9 (Numeric buttons)	When EasyLink is enabled, selects a title, chapter or track.
▲▼◀▶	Navigates through the menus of the EasyLink-compliant device.
OK	Activates a selection or accesses the menu of the EasyLink-compliant device.
☰ OPTIONS	Displays the menus of the EasyLink-compliant device. Note that when <b>⬆ (Home)</b> is pressed, the TV menu is displayed.
⏻ (Standby-On)	When EasyLink is enabled, switches the TV and all EasyLink devices to standby. Note that you must press and hold <b>⏻ (Standby-On)</b> for at least 3 seconds for this to occur.



### Tip

- Press **TV** to switch back to the aerial source from EasyLink mode.

## Enable or disable EasyLink



### Note

- Do not enable Philips EasyLink if you do not intend to use it.

- 1 Press **⬆ (Home)**.
- 2 Select **[Installation] > [Preferences] > [EasyLink]**.
- 3 Select **[ON]** or **[OFF]**.

## Enable or disable remote control key forwarding

- 1 Press **⬆ (Home)**.
- 2 Select a device that is connected to an HDMI connector.
- 3 Press **☰ OPTIONS**.
- 4 Select **[En./Dis. RC pass.]**.
- 5 Press **OK**.
- 6 Press **▲** or **▼** to highlight an HDMI connector.
- 7 Press **OK** to enable RC key forwarding for the selected HDMI connector.

## Set TV speakers to EasyLink mode

When enabled, this feature automatically turns off TV speakers when content from an EasyLink-compliant home theatre system is played. Audio is played only from the home theatre system's speakers.

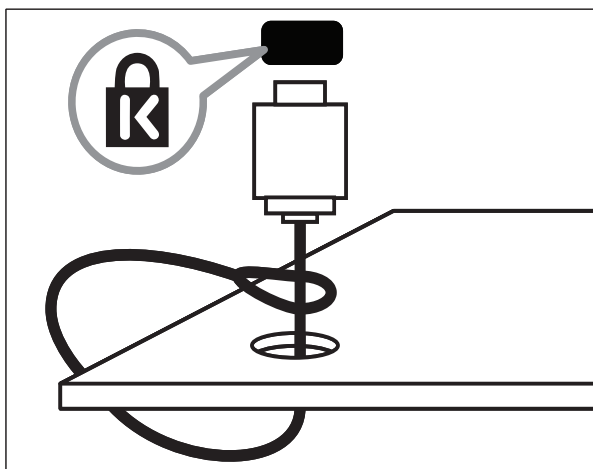
- 1 Press **⬆ (Home)**.
- 2 Press **▲▼◀▶** to select **[Setup] > [Sound]**.  
→ The **[Sound]** menu appears.
- 3 Select **[TV speakers]**.  
→ The **[TV speakers]** menu appears.

- 4 Select **[Auto (EasyLink)]**.  
↳ TV speakers are set to EasyLink mode.

---

## Use a Kensington lock

There is a Kensington security slot at the back of the TV. Prevent theft by looping a Kensington lock between the slot and a permanent object, such as a heavy table.





# 8 Product information

Product information is subject to change without notice. For detailed product information, go to [www.philips.com/support](http://www.philips.com/support).

## Supported display resolutions

### Computer formats

HDMI:

Resolution	Refresh rate (Hz)
640 × 480	60, 72, 75
720 × 400	70
800 × 600	60, 72, 75
1024 × 768	60, 70, 75
1280 × 1024	60
1360 × 768	60
1600 × 1200	60
1920 × 1080	50, 60

VGA:

Resolution	Refresh rate (Hz)
640 × 480	60, 72, 75, 85
720 × 400	70, 85
800 × 600	60, 72, 75, 85
1024 × 768	60, 70, 75, 85
1280 × 768	60
1280 × 1024	60
1360 × 768	60

### Video formats

Resolution	Refresh rate (Hz)
640 × 480p	60
720 (1440) × 480i	60
720 (1440) × 576i	50
720 × 480p	60
720 × 576p	50
1280 × 720p	50, 60
1920 × 1080i	50, 60
1920 × 1080p	24, 25, 30, 50, 60

## Tuner/Reception/Transmission

- Aerial input: 75ohm coaxial (IEC75)
- TV system: PAL BG, SECAM BG, PAL I, PAL DK, SECAM DK, NTSC M
- Video playback: NTSC, PAL, SECAM

## Multimedia

- Connection: USB
- Playback formats: H.264, MPEG4, JPEG, MP3

Container	Video Codec	Audio Codec	File extension
AVI	MPEG 4 SP, MPEG 4 ASP, MP4S,MP4V	MPEG Layer 2/3, AC3	.avi
mpeg	MPEG-1	MPEG 1 Layer 2	.mpg, .mpe, .mpeg, .vob, .dat
mpeg4	MPEG-4 AVC (h264,L2-CIF), MPEG-4 AVC (h264,L4-HD)	AAC-LC	.m4v, .mp4, .mov

## Remote control

- Batteries: 2 × AAA (LR03 type)

## Connections

- Headphone out (stereo mini-jack)
- TV aerial
- S-Video
- CVBS in
- CVBS out
- YPbPr: Component video (CVI in)
- VGA in
- HDMI
- VGA Audio in
- SPDIF out
- USB
- Service connector

---

## Power

- Mains power: AC 220-240V, 50-60Hz  
(+/- 10%)
- Standby power: < 0.15W
- Ambient temperature: 5 to 35 degrees  
Celsius

# 9 Troubleshooting

This section describes commonly encountered issues and accompanying solutions.

## General TV issues

### The TV does not switch on:

- Disconnect the power cable from the power outlet. Wait for one minute then reconnect it.
- Check that the power cable is securely connected.

### The remote control is not working properly:

- Check that the remote control batteries are correctly inserted according to the +/- orientation.
- Replace the remote control batteries if they are flat or weak.
- Clean the remote control and TV sensor lens.

### The standby light on the TV blinks red:

- Disconnect the power cable from the power outlet. Wait until the TV cools down before reconnecting the power cable. If the blinking reoccurs, contact Philips Consumer Care.

### You forgot the code to unlock the child lock feature

- Enter '0711'. This code is only for the analogue mode.

### The TV menu is in the wrong language

- Change the TV menu to your preferred language.

### When turning the TV on/off/to standby, you hear a creaking sound from the TV chassis:

- No action is required. The creaking sound is normal expansion and contraction of the TV as it cools and warms up. This does not impact performance.

## TV channel issues

### Previously installed channels do not appear in the channel list:

- Check that the correct channel list is selected.

### No digital channels were found during the installation:

- Ensure that you have a digital TV subscription. Contact your digital TV service provider.

## Picture issues

### The TV is on, but there is no picture:

- Check that the antenna is properly connected to the TV.
- Check that the correct device is selected as the TV source.

### There is sound but no picture:

- Check that the picture settings are correctly set.

### There is poor TV reception from an antenna connection:

- Check that the antenna is properly connected to the TV.
- Loudspeakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
- If reception on only one channel is poor, fine tune this channel.

### There is poor picture quality from connected devices:

- Check that the devices are connected properly.
- Check that the picture settings are correctly set.

### The TV did not save your picture settings:

- Check that the TV location is set to the home setting. This mode offers you the flexibility to change and save settings.

The picture does not fit the screen; it is too big or too small:

- Try using a different picture format.

The picture position is incorrect:

- Picture signals from some devices may not fit the screen correctly. Check the signal output of the device.

---

## Sound issues

There is a picture but no sound from the TV:



### Note

- If no audio signal is detected, the TV automatically switches the audio output off — this does not indicate malfunction.

- Check that all cables are properly connected.
- Check that the volume is not set to 0.
- Check that the sound is not muted.

There is a picture but the sound quality is poor:

- Check that the sound settings are correctly set.

There is a picture but sound comes from one speaker only:

- Verify that sound balance is set to the centre.

---

## HDMI connection issues

There are problems with HDMI devices:

- Note that HDCP support can delay the time taken for a TV to display content from a HDMI device.
- If the TV does not recognise the HDMI device and no picture is displayed, try switching the source from one device to another and back again.
- If there are intermittent sound disruptions, check that output settings from the HDMI device are correct.
- If a HDMI-to-DVI adaptor or HDMI to DVI cable is used, check that an additional audio cable is connected to **AUDIO L/R** or **AUDIO IN** (mini-jack only).

---

## USB connection issues

USB device content is not displayed:

- Check that the USB storage device is set to 'Mass Storage Class' compliant, as described in the storage device's documentation.
- Check that the USB storage device is compatible with the TV.
- Check that the audio and picture file formats are supported by the TV.

Audio and picture files do not play or display smoothly

- The transfer performance of the USB storage device may limit the data transfer rate to the TV, causing poor playback.

---

## Computer connection issues

The computer display on the TV is not stable:

- Check that a supported resolution and refresh rate is selected on the computer.
- Set the TV picture format to unscaled.

---

## Contact us

If you cannot resolve your problem, refer to the FAQs for this TV at [www.philips.com/support](http://www.philips.com/support).

If the problem remains unresolved, contact Philips Consumer Care in your country as listed in this user manual.



### Warning

- Do not attempt to repair the TV yourself. This may cause severe injury, irreparable damage to your TV or void your warranty.



### Note

- Make a note of your TV model and serial number before you contact Philips. These numbers are printed on the back of the TV and on the packaging.

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